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**(12) United States Patent
Ong****(10) Patent No.: US 6,285,317 B1****(45) Date of Patent: *Sep. 4, 2001****(54) NAVIGATION SYSTEM WITH
THREE-DIMENSIONAL DISPLAY**5,883,739 * 3/1999 Ashihara et al. 359/462
5,959,577 * 9/1999 Fan et al. 342/357.13**(75) Inventor: Ping-Wen Ong, Middletown, NJ (US)**

* cited by examiner

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NJ (US)***Primary Examiner*—Theodore M. Blum*(74) Attorney, Agent, or Firm*—Duane, Morris &
Heckscher LLP**(*) Notice:** This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: 09/071,480**(22) Filed: May 1, 1998****(51) Int. Cl.⁷ H03D 1/00****(52) U.S. Cl. 342/357.13; 701/211; 340/995****(58) Field of Search 342/357.13, 357.09,
342/357.1; 701/211; 340/995****(56) References Cited****U.S. PATENT DOCUMENTS**

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29 Claims, 9 Drawing Sheets